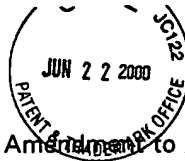


Dean L. Engelhardt, et al.

Serial No.: 08/479,997

Filed: June 7, 1995

Page 2 [Second Supplemental Amendment] to Applicants' January 4, 2000
Amendment Under 37 C.F.R. §1.115 - June 22, 2000]



KINDLY AMEND THE ABOVE-IDENTIFIED APPLICATION AS FOLLOWS:

In The Specification:

Page 1, line 1, re-insert into the specification the originally filed disclosure beginning on page 1, line 1 (commencing with the section titled "BACKGROUND OF THE INVENTION") and continuing up through page 52, line 20 (terminating with the sentence "The aforementioned publications are herein incorporated and made part of this disclosure." [Note: This re-inserted material was originally deleted by Applicants' June 7, 1995 Preliminary Amendment Accompanying Request for a Continuation Application Under 37 C.F.R. §1.60 (bottom of page 2) which was filed in this application.]

In The Claims:

Please delete claims 463, 479, 480, 491, 507, 508, 520, 548, 564 and 565 and substitute therefor the following rewritten claims:

463. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 454, wherein said PM is a monophosphate, a diphosphate or a triphosphate and said Sig moiety is covalently attached to said PM through a phosphorus atom or a phosphate oxygen.

479. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 478, wherein the sugar moiety of said terminal nucleotide has a hydrogen atom at the 2' position thereof.

480. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 478, wherein the sugar moiety of said terminal nucleotide has hydrogen atoms at each of the 2' and 3' positions thereof.

491. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 482, wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen.

507. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 506, wherein z of said terminal nucleotide comprises a hydrogen atom at the 2' position thereof.

508. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 506, wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3' and 2' positions thereof, respectively.

520. (Rewritten) The oligo- or polyribonucleotide of claim 511, wherein said PM is a monophosphate, a diphosphate or a triphosphate and said Sig moiety is covalently attached to said PM through a phosphorus atom or a phosphate oxygen.

548. (Rewritten) The oligo- or polyribonucleotide of claim 539, wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen.

564. (Rewritten) The oligo- or polyribonucleotide of claim 563, wherein z of said terminal nucleotide comprises a hydrogen atom at the 2' position thereof.

565. (Rewritten) The oligo- or polyribonucleotide of claim 563, wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3' and 2' positions thereof, respectively.

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nucleotide has hydrogen atoms at each of the 2' and 3' positions thereof." A similar recitation appears in rewritten claims 508 and 565 ("wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3' and 2' positions thereof, respectively"). Lastly, claims 491 and 548 in their rewritten forms recite "wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen."

No new matter is believed to be inserted by the rewritten claims above. Their entry is respectfully requested.

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